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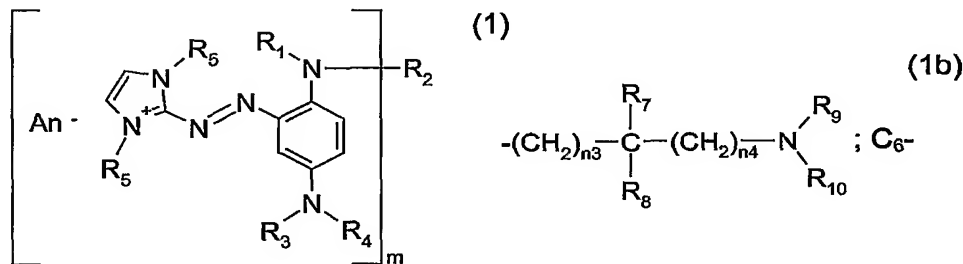
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(54) Title: 2,5-DIAMINO SUBSTITUTED AZO DYES



(57) Abstract: Disclosed are azo dyes of formula (1), wherein R₁ is hydrogen; C₁-C₁₄alkyl; hydroxy-C₁-C₁₄alkyl; C₂-C₁₄alkenyl; a radical of formula (1a) -(CH₂)_{n1}-O-(CH₂)_{n2}-CH₃; a radical of formula (1b) C₁₀aryl; or C₆-C₁₀aryl-C₁-C₆alkyl; R₃ is hydrogen; C₁-C₁₄alkyl; C₂-C₁₄alkenyl; C₆-C₁₀aryl; C₆-C₁₀aryl-C₁-C₆alkyl; or CO-R₆; R₄ is CO-R₆; R₅ is C₁-C₁₄alkyl; C₂-C₁₄alkenyl; C₆-C₁₀aryl; or C₆-C₁₀aryl-C₁-C₆alkyl; R₆ is hydrogen; C₁-C₁₄alkyl; C₂-C₁₄alkenyl; or C₆-C₁₀aryl; R₇, R₈, R₉ and R₁₀, independently from each other are hydrogen; or C₁-C₅alkyl; m is 1; or 2; An⁻ is an anion; If m = 1, R₂ is hydrogen; C₁-C₁₄alkyl; C₂-C₁₄alkenyl; a radical of formula (1a); a radical of formula (1b); C₆-C₁₀aryl; or C₆-C₁₀aryl-C₁-C₆alkyl; If m = 2, R₂ is the direct bond; or C₁-C₁₄alkylene, which is optionally substituted by one or more C₁-C₄alkyl, or which is optionally interrupted by C₅-C₁₀arylene, -O- or -NR₉R₁₀; R₉ and R₁₀, independently from each other are hydrogen; or C₁-C₅alkyl; and n₁, n₂, n₃ and n₄, independently from each other are a number from 0 to 5. The compounds are useful for the dyeing of organic material, preferably human hair.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.